

Claims

1. Process for the manufacture and separation of dinitriles from a medium originating from the hydrocyanation of unsaturated mononitriles, characterized in that it consists in
 - feeding the medium comprising the dinitriles to a distillation column
 - recovering, at the column top, the compounds with a lower boiling point than that of the dinitriles
 - recovering the intermediate fraction comprising the dinitriles from a theoretical plate situated in a lower part of the column with respect to the feed point of the medium comprising the dinitriles, and
 - recovering, at the column bottom, the products with a higher boiling point than that of the dinitriles.
2. Process according to claim 1, characterized in that the column bottom temperature is less than 200°C, preferably between 140°C and 190°C.
3. Process according to claim 1 or 2, characterized in that the recovery of the intermediate fraction is carried out without reflux.
4. Process according to claim 1 or 2, characterized in that the recovery of the intermediate fraction is carried out with a reflux ratio of between 1 and 6% by weight of the intermediate fraction.
5. Process according to one of the preceding claims, characterized in that the dinitrile compounds are compounds of following general formula (I):

NC-R-CN

(I)

in which the R radical represents a saturated hydrocarbonaceous radical comprising from 2 to 10 carbon atoms.

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6. Process according to claim 5, characterized in that the dinitriles are chosen from the group consisting of adiponitrile, methylglutaronitrile and ethylsuccinonitrile.

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7. Process according to one of the preceding claims, characterized in that it is carried out under a pressure of between 1 kPa and 5 kPa.

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8. Process according to one of the preceding claims, characterized in that the distillation column is a plate column, a packed column or a partition column.